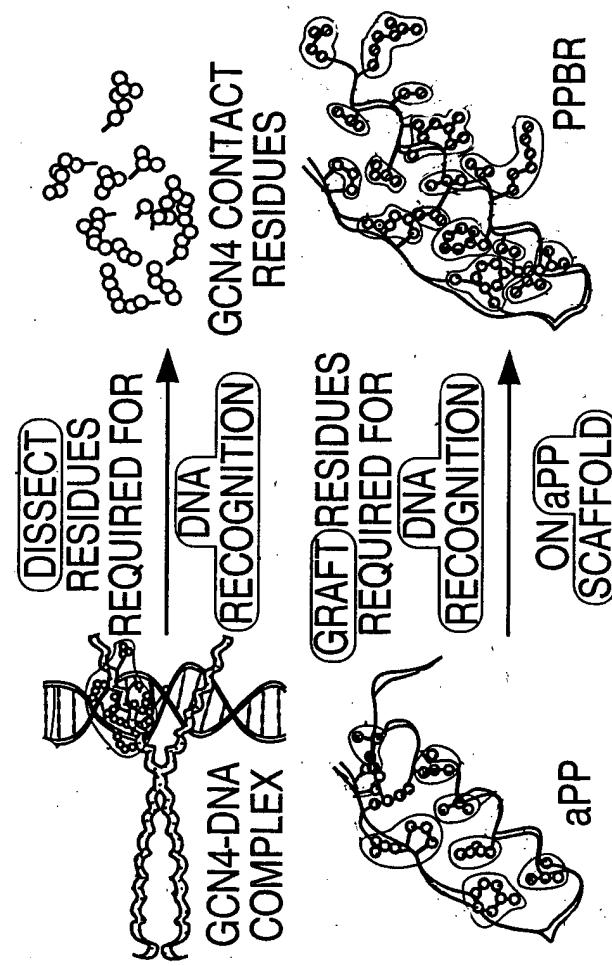




1/6

**FIG. 1**



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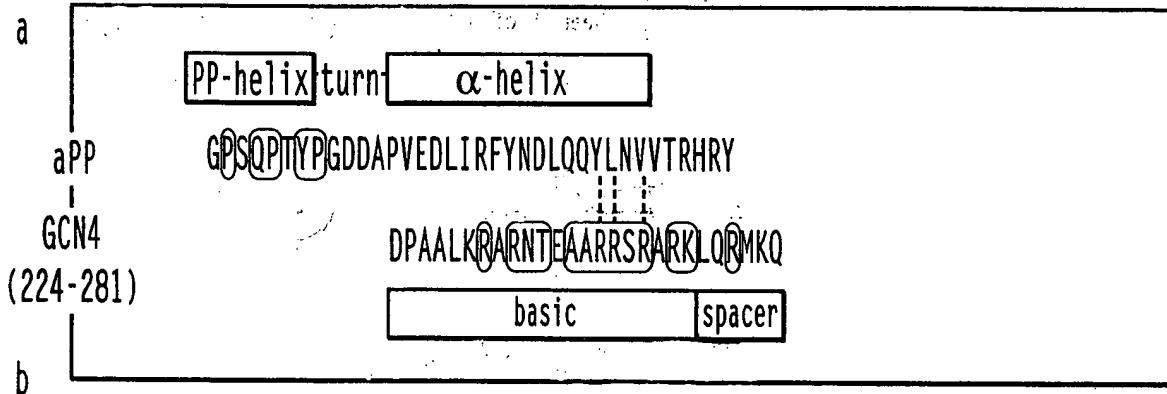
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2/6

## FIG. 2



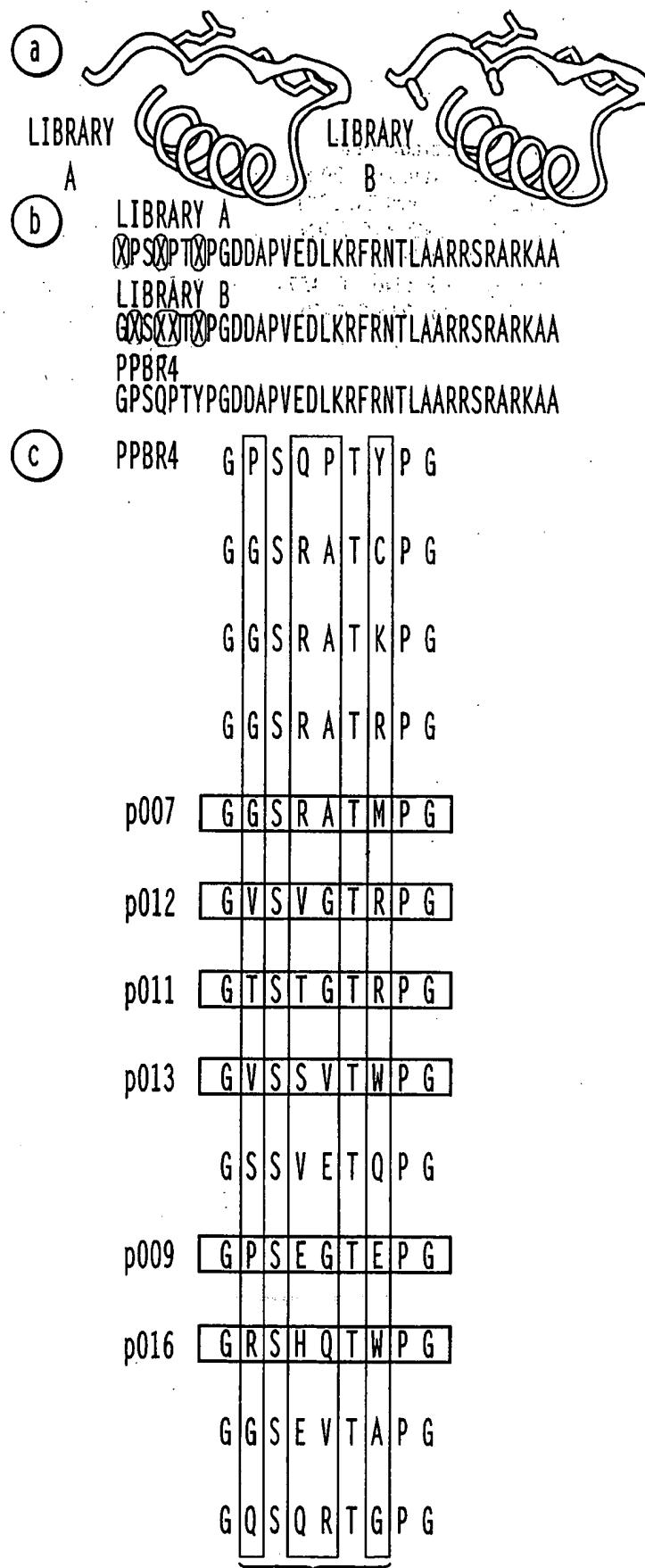
PPB10SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSVVRKLQRMKQ	NO
PPB11SR	GPSQPTYPGDDAPVEDLKRFRNTLAARLSRLRKAAARAAA	BINDING DETECTED
PPB2SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKLQRMKQ	5 nM
PPB4SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAARAAA	1.5 nM
G <sub>27</sub>	DPAALKRARNTEAARRSRARKLQRMQC	400 nM
PPB4 $\Delta$ SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRRLRKAAARAAA	1000 nM

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3/6  
**FIG. 3**



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4/6

## FIG. 4

BakLIB (20-36)	F	V	X	R	L	L	X	Y	I	X	D	X	I	N	R	#	Kd (nM)
4100	F	V	G	R	L	L	R	Y	E	G	D	E	I	N	R	6	401
4101	F	V	G	R	L	L	A	Y	E	G	D	D	I	N	R	2	811
4099	F	V	G	R	L	L	A	Y	E	G	D	T	I	N	R	3	352
4102	F	V	S	R	L	-	R	Y	I	A	D	L	I	N	R	2	3700
	F	V	R	R	L	L	G	Y	I	D	D	I	I	N	R	1	
	F	V	L	R	L	L	W	Y	I	P	D	G	I	N	R	1	
	F	V	R	R	L	L	V	Y	I	W	D	D	I	N	R	1	

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## FIG. 5

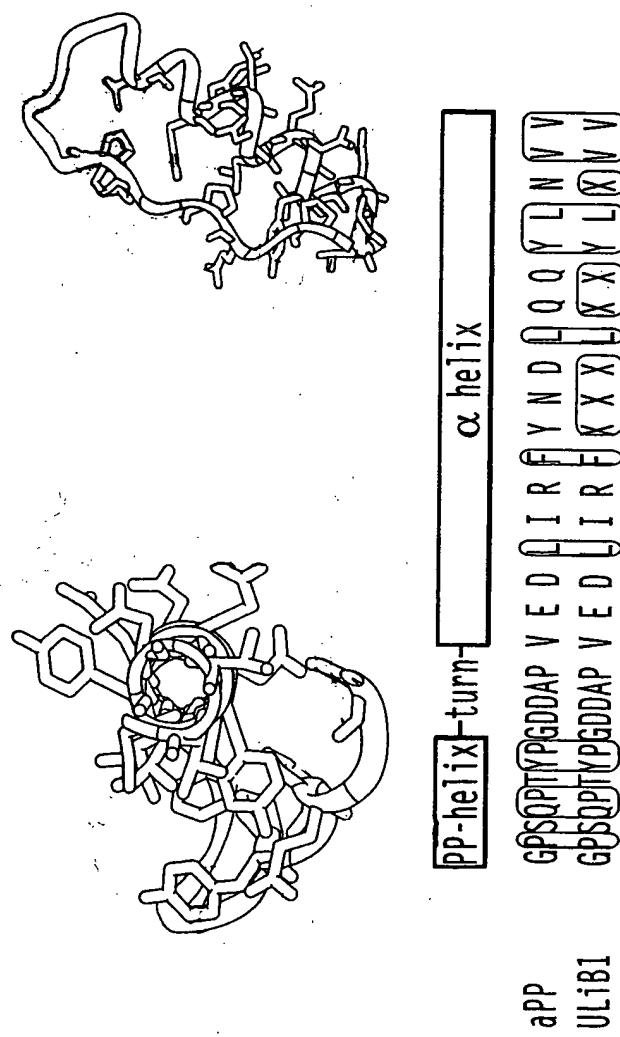
	PP-helix	turn	$\alpha$ -helix	
	1	8	17 20 22	26 29
aPP	G	SQ	TY GDDAPVEDLIRFYDNLQQYLNVV	$K_d$ (nM)
p53AD			ETFSSDLWKLLP	261
LIBRARY #1	G	SQ	TY GDDAPVEDLIRFXFXLXWYLLXX	
			-----LIRFQFTLCWYLLWT	
p3254	-----		LIRFQFALRWYLLPM	334
	-----		-----LIRFQFSLSWYLLWG	
p3255	-----		-----LIRFQFGLGWYLLAM	2800
	-----		-----LIRFQFTLRWYLLVT	
p3548	-----		-----LIRFQFPLRWYLLWA	766
	-----		-----LIRFQFWLNWYLLWY	
p3559	-----		-----LIRFKFLQWYLLAL	99
	-----		-----LIRFRFPLRWYLLAL	
	-----		-----LIRFRFQLGWYLLWF	
	-----		-----LIRFSFALQWYLLTR	
p3527	-----		-----LIRFSFALQWYLLGE	546

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6/6

FIG. 6



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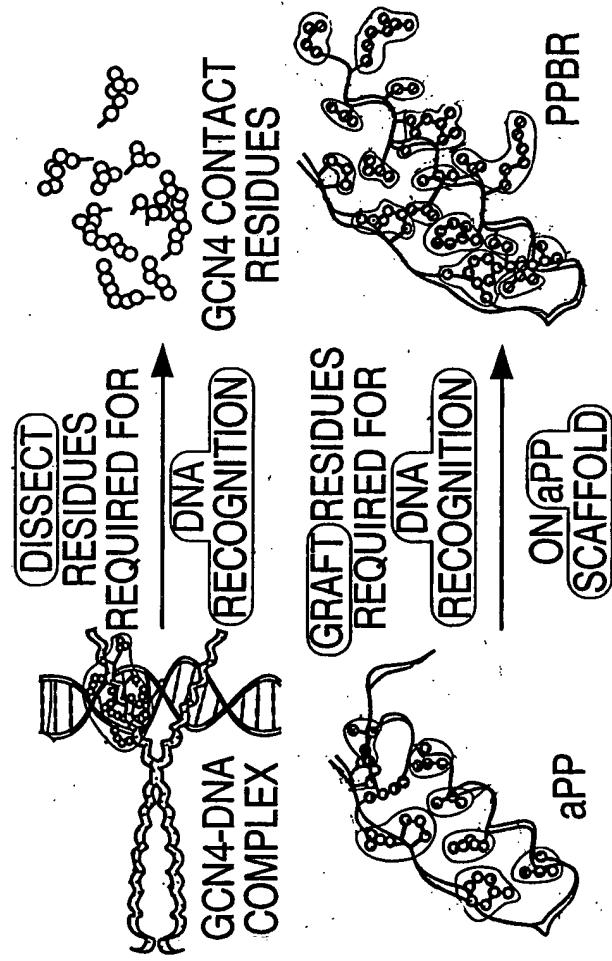
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1/6

**FIG. 1**

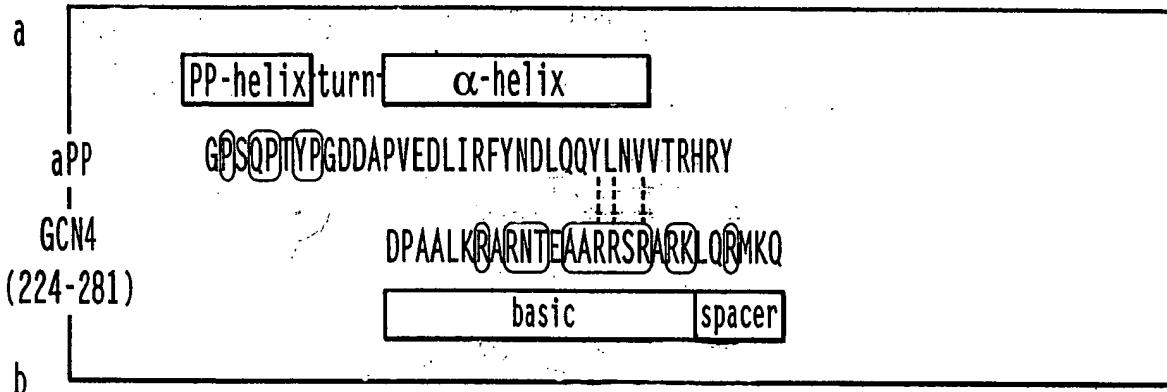


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2/6

## FIG. 2



PPBRO SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSIVVRKLORMKQ	NO BINDING DETECTED
PPBR10 SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSRLRKAAARAAA	
PPBR11 SR	GPSQPTYPGDDAPVEDLKRFRNTLAARLSRLRKAAARAAA	
PPBR2 SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKLORMKQ	5 nM
PPBR4 SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAAARAAA	1.5 nM
G <sub>27</sub>	DPAALKRARNTEAARRSRARKLORMQC	400 nM
PPBR4 $\Delta$ SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRRLRKAAARAAA	1000 nM

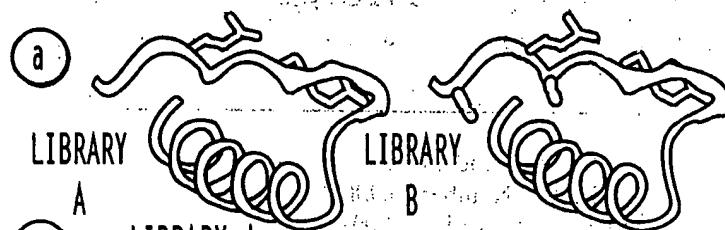
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3/6  
**FIG. 3**



(b)

LIBRARY A  
~~G~~~~P~~~~S~~~~Q~~~~P~~~~T~~~~Y~~~~P~~~~G~~

LIBRARY B  
~~G~~~~X~~~~S~~~~X~~~~T~~~~X~~~~P~~~~G~~~~D~~~~D~~~~A~~~~P~~~~V~~~~E~~~~D~~~~L~~~~K~~~~R~~~~F~~~~R~~~~N~~~~T~~~~L~~~~A~~~~A~~~~R~~~~R~~~~S~~~~R~~~~A~~~~K~~~~A~~  
 PPBR4  
 GPSQPTYPGDDAPVEDLKFRNTLAARRSRARKAA

(c) PPBR4

	G	P	S	Q	P	T	Y	P	G
	G	G	S	R	A	T	C	P	G
	G	G	S	R	A	T	K	P	G
	G	G	S	R	A	T	R	P	G
p007	G	G	S	R	A	T	M	P	G
p012	G	V	S	V	G	T	R	P	G
p011	G	T	S	T	G	T	R	P	G
p013	G	V	S	S	V	T	W	P	G
	G	S	S	V	E	T	Q	P	G
p009	G	P	S	E	G	T	E	P	G
p016	G	R	S	H	Q	T	W	P	G
	G	G	S	E	V	T	A	P	G
	G	O	S	Q	R	T	G	P	G

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4/6

## FIG. 4

BakLIB (20-36)	F	V	X	R	L	L	X	Y	I	X	D	X	I	N	R	#	Kd (nM)
4100	F	V	G	R	L	L	R	Y	E	G	D	E	I	N	R	6	401
4101	F	V	G	R	L	L	A	Y	E	G	D	D	I	N	R	2	811
4099	F	V	G	R	L	L	A	Y	E	G	D	T	I	N	R	3	352
4102	F	V	S	R	L	-	R	Y	I	A	D	L	I	N	R	2	3700
	F	V	R	R	L	L	G	Y	I	D	D	I	I	N	R	1	
	F	V	L	R	L	L	W	Y	I	P	D	G	I	N	R	1	
	F	V	R	R	L	L	V	Y	I	W	D	D	I	N	R	1	

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5/6

## FIG. 5

	PP-helix	turn	α-helix	
	1	8	17 20 22	26 29
aPP	G SQ TY	GDDAPVEDLIRFYDNLQQYLNVV		K <sub>d</sub> (nM)
p53AD		ETFSDLWKLLP		261
LIBRARY #1	G SQ TY	GDDAPVEDLIRFXFXLXWYLLXX		
		-----LIRFQFTLCWYLLWT		
p3254	-----	LIRFOFALRWYLLPM		334
	-----	LIRFQFSLSWYLLWG		
p3255	-----	LIRFQFGLGWYLLAM		2800
	-----	LIRFQFTLRWYLLVT		
p3548	-----	LIRFQFPLRWYLLWA		766
	-----	LIRFQFWLNWYLLWY		
p3559	-----	LIRFKFLQWYLLAL		99
	-----	LIRFRFPLRWYLLAL		
	-----	LIRFRFQLGWYLLWF		
	-----	LIRFSFALQWYLLTR		
p3527	-----	LIRFSFALQWYLLGE		546

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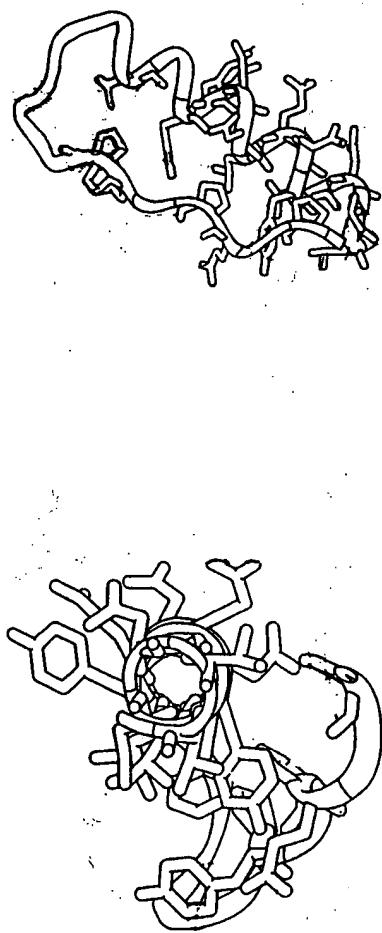


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6/6

6/6

FIG. 6



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